

WHAT IS CLAIMED IS:

1. A method for inhibiting tumor growth in a subject suffering from neoplastic disease comprising:

identifying a subject suffering from neoplastic disease;

administering to said subject an effective amount of an NK cell activating cytokine or an NK cell activating flavonoid, wherein said NK cell activating cytokine is not IL-2 or IFN- α ; and

administering a compound effective to inhibit the production or release of hydrogen peroxide selected from the group consisting of histamine, other H₂ receptor agonists, and serotonin.

2. The method of Claim 1, wherein the administration of said NK cell activating cytokine or said flavonoid and said compound effective to inhibit the production or release of intracellular hydrogen peroxide is performed simultaneously.

3. The method of Claim 1, wherein the administration of said compound effective to inhibit the production or release of intracellular hydrogen peroxide is performed within 24 hours of the administration of said NK cell activating cytokine or flavonoid.

4. The method of Claim 1, wherein said cytokine is administered in a dose of from about 1,000 to about 300,000 U/kg/day.

5. The method of Claim 1, wherein said flavonoid is administered in a dose of from about 1 to about 100,000 mg/day.

6. The method of Claim 1, wherein said histamine, other H₂-receptor agonist or serotonin is administered in a dose of from about 0.1 to about 10 mg/day.

7. The method of Claim 1, wherein said NK cell activating cytokine or flavonoid and said compound effective to inhibit the production or release of intracellular hydrogen peroxide are administered parenterally to said subject.

8. A method for inhibiting tumor growth in a subject suffering from neoplastic disease comprising:

identifying a subject suffering from neoplastic disease;

administering to said subject an effective amount of an NK cell activating cytokine or an NK cell activating flavonoid; and

administering an effective amount of a hydrogen peroxide scavenger.

9. The method of Claim 8, wherein said hydrogen peroxide scavenger catalyzes the decomposition of hydrogen peroxide.

10. The method of Claim 9, wherein the compound is selected from the group consisting of catalase, glutathione peroxidase, and ascorbate peroxidase.

11. The method of Claim 8, wherein the administration of said NK cell activating cytokine or said flavonoid and said hydrogen peroxide scavenger is performed simultaneously.

12. The method of Claim 8, wherein the administration of said NK cell activating cytokine or said flavonoid and said hydrogen peroxide scavenger is performed within 24 hours.

13. The method of Claim 8, wherein said cytokine is administered in a dose of from about 1,000 to about 300,000 U/kg/day.

14. The method of Claim 8, wherein said flavonoid is administered in a dose of from about 1 to about 100,000 mg/day.

15. The method of Claim 8, wherein said hydrogen peroxide scavenger is administered in a dose of from about 0.1 to about 10 mg/day.

16. The method of Claim 8, wherein the administration of said NK cell activating cytokine or said flavonoid and said hydrogen peroxide scavenger is performed parenterally.